



National Disaster Medical System (NDMS)

HHS DOD VA FEMA



Briefing Overview

- **National Disaster Medical System**
- **ESF #8 Role in Federal Response**
- **Federal Augmentation for Medical Response to Terrorist Incidents Involving Weapons of Mass Destruction (WMD)**

Federal Health and Medical Response



Natural Disasters



Transportation Disasters



Terrorism



Technological Disasters

Persistence of Functions Across Disasters



Assessment of Health and Medical Needs

Health Surveillance

Medical Care Personnel

Health/ Medical Equipment and Supplies

Patient Evacuation

In-Hospital Care

Food/ Drug/ Medical Device Safety

Worker Health/ Safety

Mental Health Services

Public Health Information

Vector Control

Potable Water/ Wastewater & Solid Waste Disposal

Victim Identification/ Mortuary Services

Veterinary Services



- **NDMS is a public/private sector partnership**
- **Federal partners - HHS, DOD, VA, FEMA**



NDMS Purpose

A Nationwide Medical Response System to:

- **Supplement state and local medical resources during disasters or major emergencies**
- **Provide backup medical support to the DOD/VA medical care systems during an overseas conventional conflict**



Background on the Origins of NDMS

Presidential Initiative

- **1981 - Established Emergency Mobilization Preparedness Board (EMPB)/Principle Working Groups**
- **Directed to Develop National Policies and Programs for Domestic Disasters and National Security Emergencies**



Principle Working Group on Health (PWGH)

- **PWGH Addressed Health and Medical Issues**



National Security Decision Directive 47 (NSDD-47)

- **Approved by the President
(July, 1982)**
- **Set forth Emergency Mobilization
Preparedness Principles for:**
 - **National Security Emergencies**
 - **Domestic Emergencies**



NSDD-47

Health

It is the policy of the United States to develop systems and plans to ensure that sufficient medical personnel, supplies, equipment, and facilities will be available and deployed to meet essential civilian and military health care needs in an emergency.



PWGH Developed Plans to Implement NSDD-47

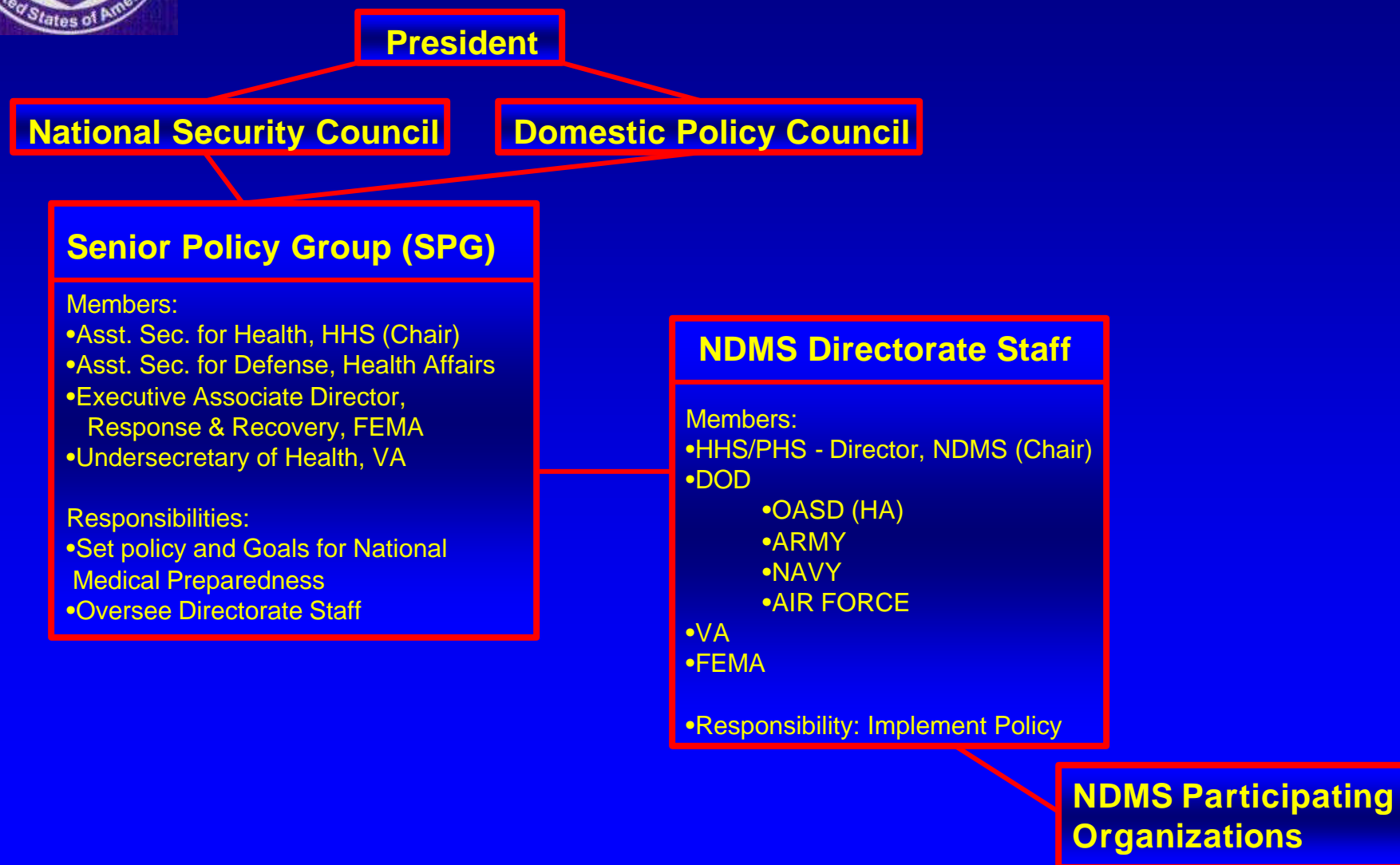
- **Identified Key Steps in Establishing a Nationwide Mutual Aid Network - NDMS**
- **EMPB Approved Key Steps**
- **President Approved National Plan of Action (March, 1983)**
- **Established the National Disaster Medical System**

CIVILIAN MILITARY CONTINGENCY HOSPITAL SYSTEM (CMCHS)





NDMS Organizational Structure





Major Components

- **Medical Response**
- **Patient Evacuation**
- **Definitive Medical Care**



NDMS Medical Response

Lead Responsibility - HHS

- **Assessment of Health/Medical Needs**
- **Provision of On-Scene Health and Mental Health Services**
- **Victim Identification/Mortuary Services**



NDMS Medical Response

(HHS Lead)

- **DMAT/Specialty Teams - More than 7,000 personnel**
- **Equipment and Supplies**



NDMS Medical Response

Disaster Medical Assistance Teams (DMATs)

- **Volunteer Groups Affiliated with NDMS**
- **Approximately 35 Persons per Team
(> 7,000 personnel)**
- **Variety of Health/Medical Skills**
- **Locally Sponsored**
- **Community Based**
- **Local/ State Asset**



NDMS Medical Response DMAT FUNCTIONS

At Disaster Site

- **Triage**
- **Austere Medical Care**
- **Casualty Clearing/Staging**

At Local NDMS Reception Area

- **Patient Reception**



NDMS Medical Response

**Fully
Deployable
LEVEL - I**

**Support
LEVEL - II**

**Staffing Resources
LEVEL - III**



NDMS Readiness Level 1 Disaster Medical Assistance Teams





NDMS Medical Response SPECIALTY TEAM FUNCTIONS

- **Pediatric**
- **Burn**
- **Disaster Mortuary Teams (DMORTs)**
- **Urban Search and Rescue/Medical**
- **Mental Health**
- **Veterinary Medical Assistance Teams (VMATs)**
- **National Medical Response Teams (NMRTs)**
- **International Medical Surgical Response Team (IMSuRT)**



DMATs and Specialty Teams

- **Under Memorandum of Understanding (MOU) with U.S. Public Health Service**
- **Federal Enrollment of Team Members**
- **Federalization Upon Activation**
 - **Special Needs Authority**
 - **Accepted Volunteer Services Authority**
- **Importance of Federalization**
 - **Licensure / Certification**
 - **Liability**
 - **Compensation**



Management Support Team (MST)

- Responds to Disaster Area
- Provides Management Support to Deployable Teams
- Uses Incident Command System (ICS)
 - Logistics
 - Communications
 - Operations
 - Finance / Procurement
 - Plans
- Interface with Local Disaster Management System



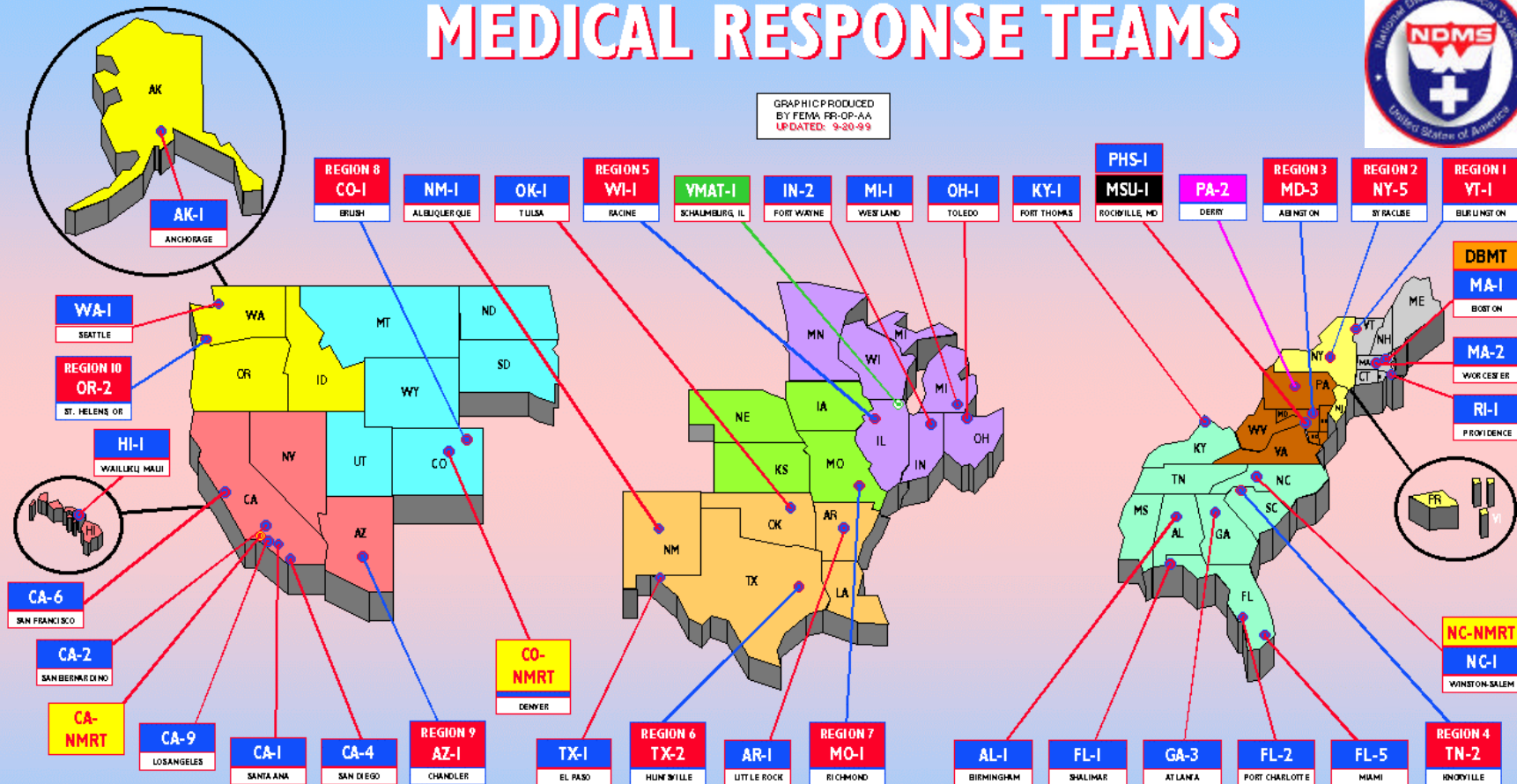
NDMS RESPONSE TEAMS

- 4 National Medical Response Teams / WMD
- 26 Disaster Medical Assistance Teams - (12-24 hr response)
- 7 Disaster Medical Assistance Teams - (Support)
- 11 Disaster Medical Assistance Teams - (Staffing resource)
- 6 Burn Teams
- 2 Pediatric Teams
- 1 Crush Medicine Team
- 1 International Medical / Surgical Team
- 4 Mental Health Teams
- 4 Veterinary Medical Assistance Teams
- 10 Disaster Mortuary Teams
- 3 Management Support Teams

MEDICAL RESPONSE TEAMS



GRAPHIC PRODUCED
BY FEMA RR-OP-AA
UPDATED: 9-20-99



LEVEL I DISASTER MEDICAL ASSISTANCE TEAM (DMAT)

DISASTER MORTUARY TEAM (DMORT)

MANAGEMENT SUPPORT UNIT (MSU)

VETERINARY MEDICAL ASSISTANCE TEAM (VMAT)

DISASTER CRUSH MEDICINE TEAM (DCMT)

NATIONAL MEDICAL RESPONSE TEAM/WEAPONS OF MASS DESTRUCTION (NMRT)

DISASTER BURN MEDICINE TEAM (DBMT)



NDMS Patient Evacuation

Lead Responsibility - DOD

- Provide Patient Movement from the Disaster Area
- Utilize All Types of Transportation
- Primarily Relies on Aeromedical





Medical Evacuation Functions

- Patient Reporting - PRA
- Patient Regulating - GPMRC
- Patient Movement Request - DMRT
- Patient Staging - MASF
- Patient Lift - TRANSCOM
 - Embarkation
 - Debarkation
- Coordination with Various System Elements



NDMS Definitive Medical Care

Lead Responsibility - DOD/ VA

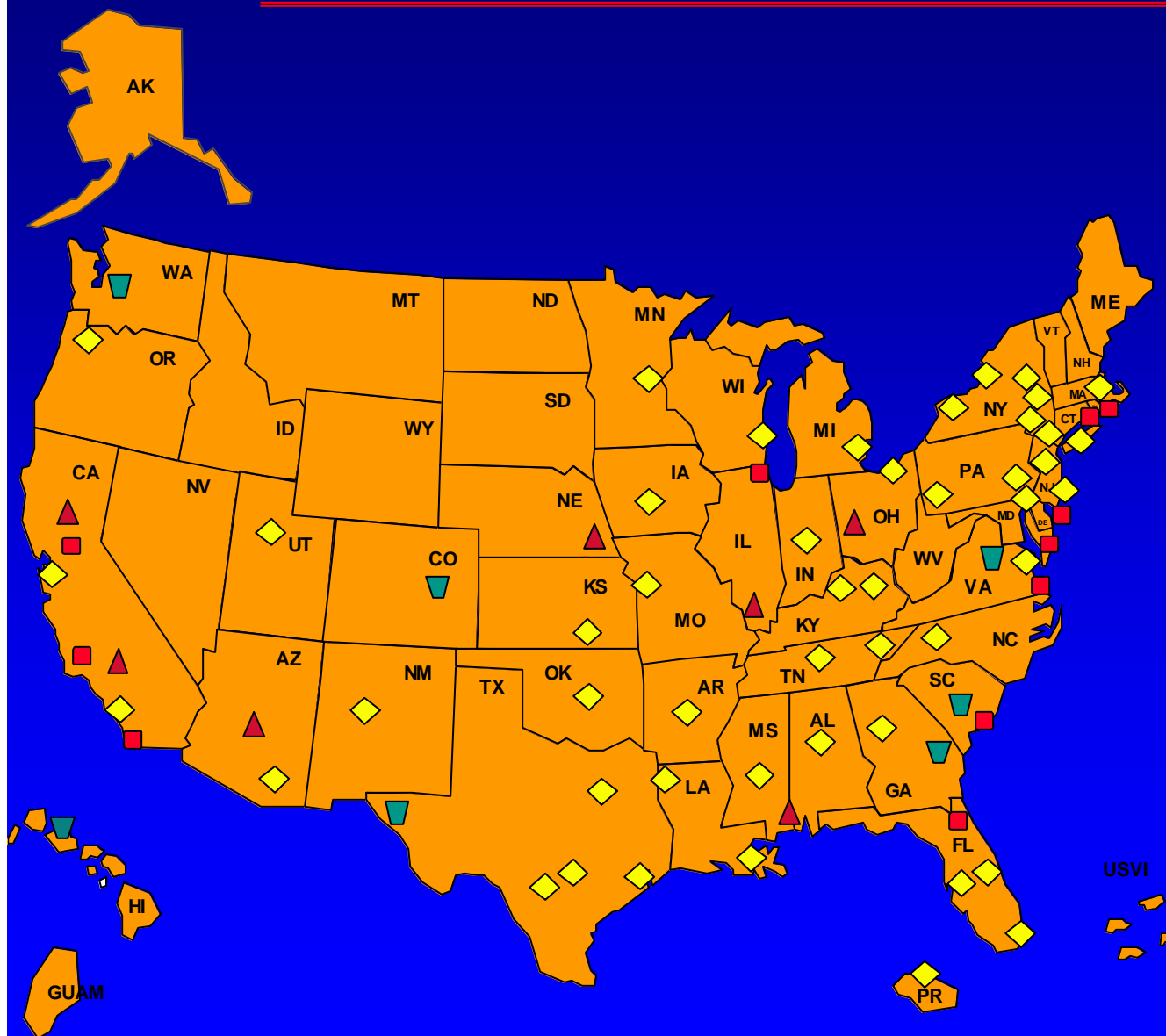
- **Concentrated in Major Metropolitan Areas**
- **Air Access**
- **Federal Coordinating Centers (FCCs)**
- **Available Hospital Support**
- **Patient Reception and Distribution Capabilities**



NDMS Definitive Medical Care

- **Network of approximately 2,000 non-Federal hospitals**
- **65 FCCs, which coordinate in excess of 82 receiving areas**

NDMS Definitive Medical Care Federal Coordinating Centers (FCCs)



- Army FCC
- Navy FCC
- Air Force FCC
- VA FCC



NDMS Federal Coordinating Centers

Responsibilities

- **Coordinate NDMS Definitive Medical Care in Assigned Local Areas**
- **Solicit and Organize Community Support Services**
- **Enroll Non-Federal Local Hospitals in NDMS**
- **Coordinate Bed Availability**
- **Coordinate with Local / State Authorities on:**
 - **Preparing of Local NDMS Patient Reception Plans**
 - **Plan and Conduct Annual NDMS Exercises**
 - **NDMS Operations During Activation**



Role of Participating Hospital

- **Voluntary Commit Hospital Support to NDMS**
- **Provide Bed Availability Information to Local NDMS Federal Coordinating Center**
- **Treat NDMS Patients**
- **Participate in NDMS Exercises**



Circumstances for Which NDMS May be Activated

- **Military Contingency - Overseas Conventional Armed Conflict Involving U.S. Forces**
- **Presidential Declaration of Disaster**
- **Request for Major Medical Assistance**



NDMS Readiness Activities

- **Maintenance of Plans**
- **Training**
- **Exercises**
- **Special Events**
- **Annual Conferences**



Partial Listing of Endorsement for NDMS

- American Burn Association
- American Hospital Association
- American Medical Association
- American Nurses Association
- American College of Emergency Physicians
- American College of Surgeons Committee on Trauma
- American College of Healthcare Executives
- American Red Cross
- Emergency Nurses Association
- National Association of State EMS Directors
- National Association of Emergency Medical Technicians
- National Emergency Management Agency
- National Fire Protection Association
- National Funeral Directors Association
- Society for Academic Emergency Medicine



NDMS Benefits

- **Maximizes the Utilization of Existing Resources**
- **Provides Identified Levels of Care**
- **Integrates Pre-hospital Phase with Medical Facilities**
- **Helps Contain Health Care Costs**
- **Designed to Reduce Mortality and Morbidity**



Importance of NDMS

- **Improves Federal Mission Readiness**
 - **Ability to Mobilize and Deploy Medical Teams, Supplies, and Equipment**
 - **Ability to Provide Patient Evacuation System**
 - **Ability to Provide Definitive Medical Care**
- **Adds Value to America**



ESF # 8/NDMS Activations

- 1989 - Hurricane Hugo
- 1989 - Loma Prieta Earthquake
- 1992 - Hurricane Andrew
- 1992 - Typhoon Omar
- 1992 - Hantavirus (S.W.)
- 1992 - Hurricane Iniki
- 1993 - Midwest Floods
- 1993 - Hurricane Emily
- 1994 - Northridge Earthquake



ESF # 8/NDMS Activations (cont'd)

- 1994 - Southeast Georgia Floods
- 1994 - Houston Floods
- 1994 - Winter Ice Storms
- 1995 - Oklahoma City Bombing
- 1995 - Hurricanes Marilyn & Opal
- 1995 - California Flood
- 1996 - Centennial Olympic Games
- 1996 - Hurricane Fran



ESF # 8/NDMS Activations (cont'd)

- 1996 - Republican Convention
- 1996 - Democratic Convention
- 1996 - Quincy, IL Air Crash
- 1996 - Oregon Floods
- 1996 - Hurricane Eduardo
- 1996 - Hurricane Bertha
- 1996 - Hurricane Hortense



ESF # 8/NDMS Activations (cont'd)

- 1997 - Presidential Inaugural
- 1997 - California Floods
- 1997 - Monroe, MI Air Crash
- 1997 - North Dakota Floods
- 1997 - Minnesota Floods
- 1997 - Kentucky Floods
- 1997 - Idaho Floods
- 1997 - Indiana Storms



ESF # 8/NDMS Activations (cont'd)

- 1997 - Ohio Floods
- 1997 - Nevada Floods
- 1997 - Hawaii Floods
- 1997 - Summit of the Eight
- 1997 - Guam Air Crash
- 1998 - New York Ice Storms
- 1998 - State of the Union



ESF # 8/NDMS Activations (cont'd)

- 1998 - Typhoon Paka (Guam)
- 1998 - California Floods
- 1998 - Nike Games
- 1998 - Texas Floods
- 1998 - World Energy Council
- 1998 - Hurricane Georges
- 1999 - State of the Union



ESF # 8/NDMS Activations (cont'd)

- 1999 - Papal Visit
- 1999 - AMTRAK
- 1999 - NATO Summit & 50th Anniv.
- 1999 - Operation Tornado (OK)
- 1999 - Provide Refuge (Kosovo Refug.)
- 1999 - INS Support (Tinian)
- 1999 - Hurricane Brett



ESF # 8/NDMS Activations (cont'd)

- 1999 - Hurricane Dennis
- 1999 - Hurricane Floyd
- 1999 - CA Forest Fires
- 1999 - Egypt Air 990
- 1999 - World Trade Organization
- 1999 - Hurricane Lenny
- 1999 - Y2K



ESF # 8/NDMS Activations (cont'd)

- 2000 - State of the Union Address
- 2000 - Alaska Air Crash
- 2000 - IMF/World Bank Spring Meeting
(Wash, D.C.)



Commissioned Corps Readiness Force (CCRF)

Created in 1994 by the PHS Office of the Surgeon General

Mission

To provide a cadre of PHS Officers uniquely qualified by education and skills to be mobilized:

- In times of extraordinary need during disaster, strife, or other public health emergencies;
- In response to **domestic** and **international** requests, to provide leadership and expertise by directing, enhancing, and supporting services of the PHS, DHHS OPDIVs, other U.S. Government agencies, and/or respondents.



Commissioned Corps Readiness Force

CCRF Activation and Deployment

(1) Surgeon General considers request for assistance from federal, state, local, international organizations;

Requests must meet specific needs criteria such as:

- Challenges exceed organization's capabilities
- Declared emergency
- Critical technical need

(2) Surgeon General authorizes OEP to assign and deploy personnel.



Commissioned Corps Readiness Force

CCRF Members by Category (April 26, 2000)

<u>Current Members</u>	
Dental	101
Dietitian/Nutritionist	20
Engineer	133
Health Services Officer	203
Medical	190
Nurse	325
Pharmacist	198
Environmental Health Officer	166
Scientist	54
Therapist	36
Veterinary	21
TOTAL	1447



NDMS and the Federal Response Plan

Federal Response Plan

- **Stafford Act Authority (P.L. 93-288, as Amended)**
- **U.S. Government Interagency Plan**
- **Mechanism for Federal Response to Major
Emergency or Disaster**
- **National / Regional Architecture**
- **Includes NDMS**

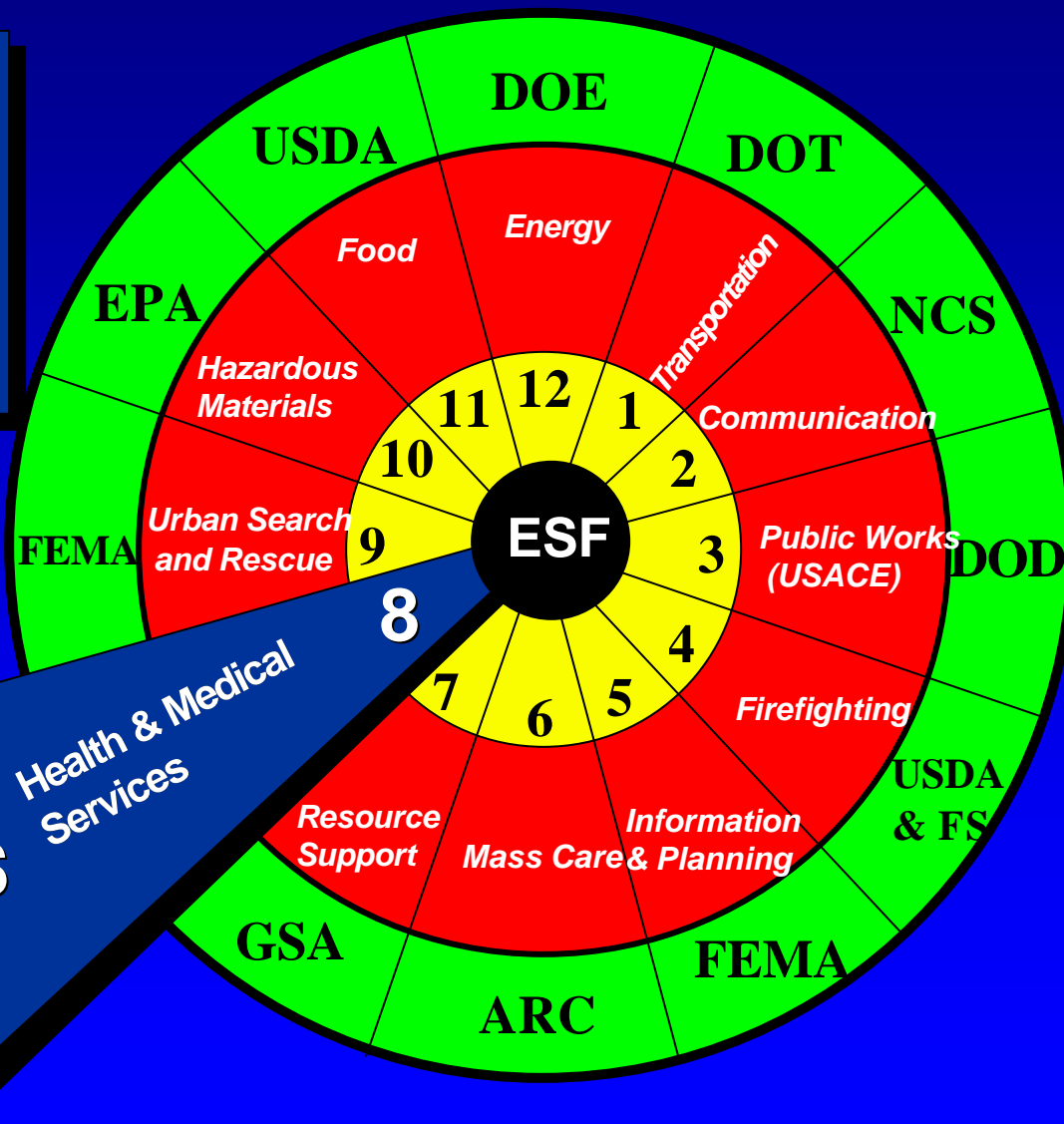




Federal Response Plan Emergency Support Functions

USDA
DOJ
DVA
DOD
DOT
DOE

AID
ARC
EPA
FEMA
GSA
NCS





ESF #8 - Health & Medical Services

- **Lead Federal Agency: Department of Health and Human Services, U.S. Public Health Service**
- **Supporting Departments and Agencies**
 - Department of Defense
 - Department of Veterans Affairs
 - Department of Transportation
 - Department of Energy
 - Department of Agriculture
 - Department of Justice
 - Federal Emergency Management Agency
 - Environmental Protection Agency
 - General Services Administration
 - American Red Cross
 - National Communications System
 - Office of U.S. Foreign Disaster Assistance
 - U.S. Postal Service

Roles of Emergency Support Function #8



- 1. Assessment of Health and Medical Needs**
- 2. Health Surveillance**
- 3. Medical Care Personnel**
- 4. Health/Medical Equipment and Supplies**
- 5. Patient Evacuation**
- 6. In-Hospital Care**
- 7. Food/Drug/Medical Device Safety**
- 8. Worker Health/Safety**
- 9. Radiological, Chemical, and Biological Hazards**
- 10. Mental Health**
- 11. Public Health Information**
- 12. Vector Control**
- 13. Potable Water/Wastewater & Solid Waste Disposal**
- 14. Victim Identification/Mortuary Services**
- 15. Veterinary Services**



ESF #8 - Health & Medical Services

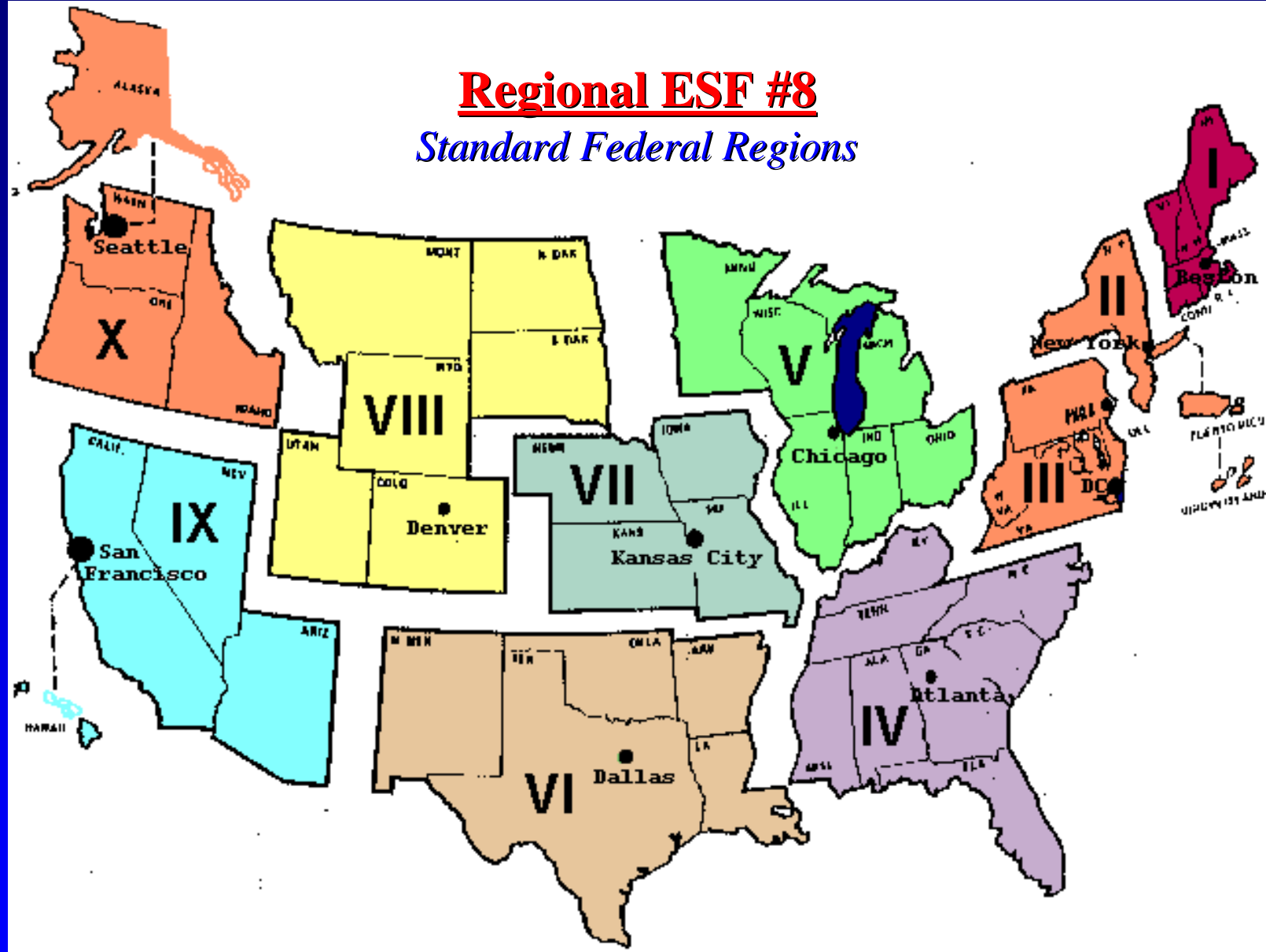
- **Functions**

- Preventive Health Services
- Environmental Health Services
- Medical Services*
- Mental Health Services*

** (performed by NDMS)*

Regional ESF #8

Standard Federal Regions



***PREPARING TO RESPOND TO TERRORISM
INCIDENTS IN THE UNITED STATES
WITH SPECIAL EMPHASIS ON
WEAPONS OF MASS DESTRUCTION***



Crisis Management

- **FBI Lead**
 - **Focus on Intelligence & Investigation**
 - **Goal to Prevent / Interdict and Contain / Minimize Consequences of C/B Terrorism**
 - **On-Scene Commander Responsibilities Assumed by Field Office Special Agent-in-Charge (SAC)**
 - **National Command & Coordination Provided by FBIHQ**



Consequence Management

- **Other Federal Agencies Support the FBI as Needed**
- **Goal to Support Crisis Management and Assist in Agent Release Consequence Management**
- **FEMA Coordinates Consequence Management in Major Incident Using the Federal Response Plan System**
 - **Terrorism Incident Annex**



WMD Release or Detonation

Primary consequence is impact on human health requiring an unprecedented medical response



Critical C/B Consequence Management Functions

- Threat Assessment
- C/B Consultation with Affected Jurisdiction
- Public Affairs
- Technical Assistance
- Agent Identification
- Epidemiological Investigation
- Expedient Hazard Detection
- Expedient Hazard Reduction
- Environmental Decontamination
- Mental Health Support



Critical C/B Consequence Management Functions (continued)

- **Clinical Medical Support**
 - **Health Professionals**
 - **Laboratory Support**
 - **Patient Evacuation**
 - **In-Hospital Care**
- **Pharmaceutical Support**
- **Human Toxic Effects Registry**
- **Supplies and Equipment**
- **Victim Identification and Mortuary Services**



HHS Strategic National Counterterrorism Plan



- **Create local resources - rapid response time required**
- **Develop partnerships to:**
 - **Improve local health and medical system capability to respond effectively (MMST System)**
 - **Improve Federal health and medical capability to rapidly augment State/local response**
 - **National Response Teams**
- **Includes the National Disaster Medical System (NDMS)**



NDMS Medical Response Weapons of Mass Destruction

- **4 National N/B/C response capable teams (NMRT/WMD)**
 - Winston Salem, NC
 - Denver, CO
 - Los Angeles, CA
 - Washington, DC Area (Remains in area)
- **Additional Training for DMATs and DMORTs**



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<http://www.oep-ndms.dhhs.gov/>



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- ▶ NDMS Conference
- ▶ Counter Terrorism Program
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